



SOUTH GRANVILLE WATER and SEWER AUTHORITY
ANNUAL SYSTEM PERFORMANCE REPORT
For Fiscal Year July 1, 2020 thru June 30, 2021

I. General Information

Facility/System Name: South Granville Water and Sewer Authority Wastewater Treatment Plant

Responsible Entity: South Granville Water and Sewer Authority

Person in Charge/Contact: Cody Norwood- Wastewater Superintendent (919)-575-3111 ext.100
Robert Jackson- Distribution & Collection Supervisor (919)-575-3112
South Granville Water and Sewer Authority
415-B Central Avenue
Butner, NC 27509
(919)- 575-3111

Applicable Permit(s): NPDES Permit No. NC0026824/ WQCS00068

Description of Treatment Process and Collection System:

- A. The design capacity of the South Granville Water and Sewer Authority (SGWASA)_wastewater treatment plant is 5.5 Million Gallons per Day (MGD). This facility consists of dual bar screening, extended aeration, biological nutrient removal, clarification, denitrification filtration, chlorination, dechlorination, two-stage digestion, sludge dewatering and disposal of sludge by land application.
- B. The South Granville Water and Sewer Authority wastewater collection system consists of approximately 154 miles of force mains and gravity flow pipe ranging from 8 inches to 30 inches in diameter. There are 48 pumping stations in the system, which lift wastewater from lower areas up to the main outfall lines to the wastewater treatment plant. Each pumping station is equipped with a standby generator for emergency power and a SCADA system to monitor pumping station conditions and standby generator status. The wastewater collection system for the South Granville Water and Sewer Authority was constructed in the 1940's.

II. Performance: Summary of System Performance for Fiscal Year July 1, 2020 thru June 30, 2021

The South Granville Water and Sewer Authority Wastewater Treatment Plant operates under NPDES Permit No. NC0026824 with the following permit limitations:

<u>Parameter</u>	<u>Permitted Level</u>
Flow	5.5 MGD
Biological Oxygen Demand	5 mg/L summer, 10mg/L winter
Total Suspended Residue	30 mg/L
Ammonia	1 mg/L summer, 2 mg/L winter
Dissolved Oxygen	6 mg/L minimum
Fecal Coliform	200/100 ml
Total Phosphorus	2 mg/L Quarterly Avg, 2,486 lbs/year
Total Nitrogen	22,420 lbs/year
Total Cyanide	5.0 ug/L Monthly Avg.
Chromium VI	11 ug/L Monthly Avg.
PH	6 minimum 9 maximum Standard Unit
Chronic Toxicity	Pass/Fail 90% Chronic (Ceriodaphnia)
Total Residual Chlorine	17.0 ug/L



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A review of the discharge monitoring reports for the period of July 2020 through June 2021 was conducted. The next page is a monthly list of the number and type of all violations of permit limits, monitoring and reporting violations, illegal bypass of treatment facilities and sanitary sewer overflows.

Month	Permit Limit		Illegal Bypass of Treatment Facilities		Sanitary Sewer Overflows	
	Type	Qty	Type	Qty	Estimated Total	Location
July			0	0		
August				0		
September			0	0	2000 400	Middleton Pump Station MH3089 Franklin Street MH4152
October			0	0	1800 3600 1800	B Street #2 Pump Station MH1804 Middleton Pump Station MH3089 Franklin Street MH4152
November			0	0	6600 1050 900	Middleton Pump Station MH3089 Picture Creek MH1804 Franklin Street MH4152
December			0	0	600 200	1917 W. B St. & B St. Pump Station 120 Franklin Street
January			0	0		
February			0	0		
March			0	0		
April			0	0		
May			0	0	200	1600 E. C Street
June			0	0		

III. Industrial Pretreatment/ FOG Program

Industrial Pretreatment Program staff surveys facilities discharging into the sewer system and issue permits to facilities in certain categories, determined either by the type of business activity they conduct or the type(s) of wastewater discharged from their facility. Permit limits are established based on the ability of the receiving SGWASA Wastewater Treatment Plant. SGWASA currently monitors one (1) industrial user.

FOG (fats, oil and grease) refers to all fats, oils and grease generated during food preparation, food service, and/ or kitchen cleanup. Residents can help prevent pipe blockages and sewer overflows by keeping grease out of the sewer system. Sewer backups can cause damage to homes, health hazards and threaten the environment. Sewer pipes blocked by grease have become an increasing cause of SGWASA Sewer System’s overflows. Working together, we can prevent sewer overflows and keep the environment clean.



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What can residents do?

- Never pour grease down the sink or into the toilet.
- Scrape grease and food scraps into a waste container after it cools.
- Do not put food scraps down the garbage disposal. Garbage disposal units do not prevent grease from going down the drain.
- Use a strainer in the sink to catch food scraps and other solids.

IV. Notification

A list was developed from customer billing records and each customer was directed to the SGWASA website where they could view a copy of the Performance Annual Report. The notification was contained in the August 2021 utility bill.

V. Certification

I certify under penalty of law that this report is complete and accurate to the best of my knowledge. I further certify that this report has been made available to the users or customers of the named system and that those users have been notified of its availability.

Scott N. Schroyer, Executive Director
415 Central Avenue Suite B
Butner, NC 27509